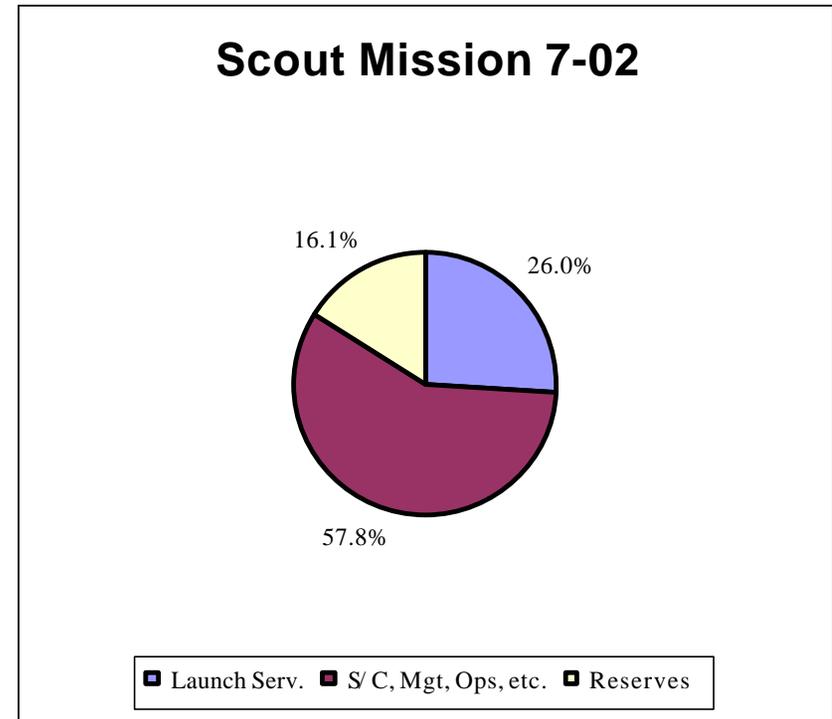
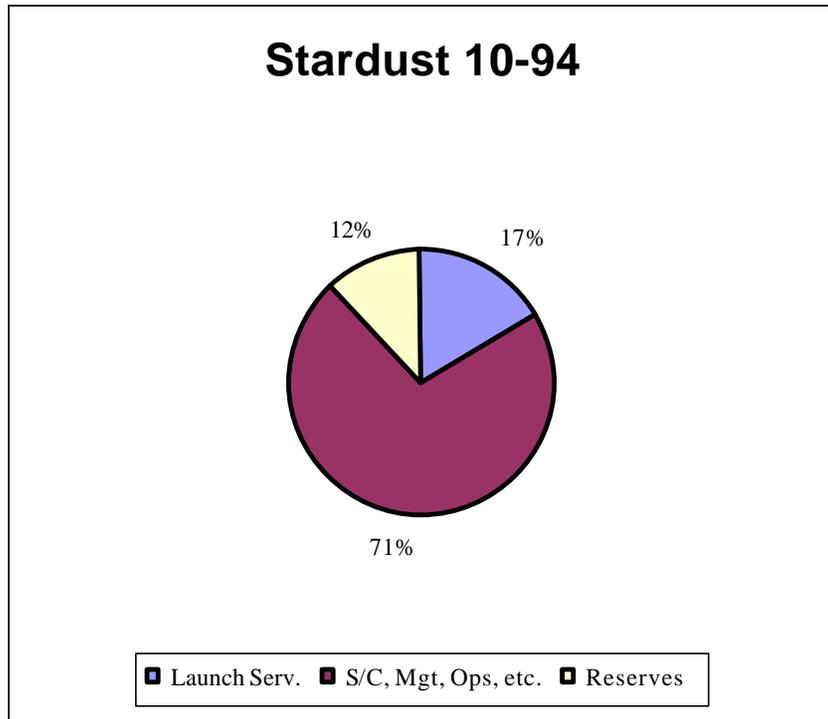


**Discovery
Lessons Learned Workshop
July 24, 2002**

Ben Clark

Steve Price

From '94 to '02



Sum of (L.V. + Proj. Reserves) has escalated from 28% to 42%

Cost Squeeze

- Cost Growth has been in:
 - Launch Vehicles
 - DSN charges
 - Perceived need for large Reserves
 - Stardust mission would have been \$ 47 M more expensive
- Spacecraft in danger of being squeezed too much
 - Runs the risk of increasing risk (remember FBC)
- SEP missions are difficult or impossible to do within Cost Cap

Additional Pressure on Cost

- **Ever-increasing Expectations for Science**
 - **Science Reviewers like missions that promise a lot**
- **Last three missions selected are very ambitious**
 - **Messenger**
 - **Kepler**
 - **DAWN**
- **Recommendation: Give important weighting to Performance Floor, not just Baseline**
 - **Prevent possibility of “gaming the system”**